

20030312.qrp v02\_n857.qrl.20030312

Date: Wed, 12 Mar 2003 19:03:04 EST  
From: qrp-l@Lehigh.EDU  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: QRP-L digest 2857

QRP-L Digest 2857

Topics covered in this issue include:

- 1) [147431] Tuesday Night Demo of Argonaut V & SGC ADSP2 in Ferndale, WA  
by "Bruce Prior" <n7rr@hotmail.com>
- 2) [147432] FS: Norcal 40A (Club Offering)  
by "Alan Fryer" <N3BJ@hotmail.com>
- 3) [147433] Re: Armadillo Hunt [most in S. Texas]  
by Chuck Carpenter <w5usj@9plus.net>
- 4) [147434] Lobstercon 2003 is on!  
by "Rex Harper" <w1rex@megalink.net>
- 5) [147435] Re: Mystery part  
by Ted Buckley <tedb@aracnet.com>
- 6) [147436] QPR items for sale again  
by "ke4vpn" <ke4vpn@carolina.rr.com>
- 7) [147437] Re: Mutual Inductance Coefficient and Toroid Impenace  
by "Chris Trask" <chistrask@earthlink.net>
- 8) [147438] Re: Mystery part  
by David Hinerman <WD8CIV@worldnet.att.net>
- 9) [147439] USA-CA all QRP  
by Larry Cahoon <lejek@erols.com>
- 10) [147440] LOBSTERCON 2003....better formattin'  
by "Rex Harper" <w1rex@megalink.net>
- 11) [147441] re: Ghost towns  
by JClinton46@aol.com
- 12) [147442] Identifying coils/xfrms  
by "Ian Wilson" <ianmwilson@earthlink.net>
- 13) [147443] FOX: Final log K0PC  
by Pat Cain <pcain@ix.netcom.com>
- 14) [147444] Value of PM3A  
by "Doc K0EVZ" <dock0evz@earthlink.net>
- 15) [147445] Schematic Software - Thanks  
by Nelson Winter <thenels@go.com>
- 16) [147446] Re: Mystery part  
by Pete Burbank <plburbank@earthlink.net>
- 17) [147447] Re: LOBSTERCON 2003: Free Range Lobsschters? (drool...)  
by "sslyon" <sslyon@megalink.net>
- 18) [147448] Re: MFJ-914 'Tuner Extender' ??  
by "KXBill" <w7kxb@cox.net>
- 19) [147449] Re: QSL Software - Thanks

- by "W2WU" <w2wurjj@verizon.net>
- 20) [147450] RE: Positive resist exposure times?  
by "Bob Okas" <vintage2@earthlink.net>
- 21) [147451] Dayton QRP Banquet door prizes!  
by "Scott Rosenfeld [N7JI]" <ham@w3eax.umd.edu>
- 22) [147452] hw-8 - low-z headphones..  
by sergio <sergio@village-buzz.com>
- 23) [147453] Re: Identifying coils/xfrmrs  
by Mike Czuhajewski <wa8mcq@comcast.net>
- 24) [147454] NETXQRP Club Meeting, Saturday 15 March  
by Chuck Carpenter <w5usj@9plus.net>
- 25) [147455] FSQRP Wednesday Warble  
by "David Bixler" <qrp@netins.net>
- 26) [147456] FS: Homebrew Parts  
by "Jerry Bartachek" <KD0CA@praisescrbe.com>
- 27) [147457] Four State QRP Group Luncheon Meeting Saturday  
by "David Bixler" <qrp@netins.net>
- 28) [147458] Re: Tuesday Night Demo of Argonaut V & SGC ADSP2 in Ferndale, WA  
by "W2BJ" <barry@w2bj.com>
- 29) [147459] WTB: FT-817  
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
- 30) [147460] FS: MFJ 971 Antenna Tuner  
by "Mike - K7AZZ" <k7azz@arrl.net>
- 31) [147461] QRP gatherings  
by Scott Galloway <scott@defiant.mcgeorgecarco.com>
- 32) [147462] Circuit Simulation Software  
by "William Phinzy" <k6whp@verizon.net>
- 33) [147463] homebrewing ultra-lightweight feedline  
by "John\_Evans" <jaevans@mail.codenet.net>
- 34) [147464] Re: homebrewing ultra-lightweight feedline  
by "Bill Jones" <kd7s@psnw.com>
- 35) [147465] Re: homebrewing ultra-lightweight feedline  
by Jimmy Lee <jrllaudio@bellsouth.net>
- 36) [147466] Re: homebrewing ultra-lightweight feedline  
by "Mark Andrews" <KE4IOF@KE4IOF.com>
- 37) [147467] Re: homebrewing ultra-lightweight feedline  
by "Glen Leinweber" <leinwebe@mcmail.cis.mcmaster.ca>
- 38) [147468] Re: homebrewing ultra-lightweight feedline  
by W2AGN <w2agn@w2agn.net>
- 39) [147469] Re: homebrewing ultra-lightweight feedline  
by "Ray Goff" <radioham@gmx.co.uk>
- 40) [147470] Understanding IFT specs  
by "Ian Wilson" <ianmwilson@earthlink.net>
- 41) [147471] Re: QRP gatherings  
by "Richard Brummer, K2JQ" <k2jq@rcn.com>
- 42) [147472] Re: homebrewing ultra-lightweight feedline  
by "Charles W3KC" <w3kc@starpower.net>
- 43) [147473] Re: Understanding IFT specs

- by "Ian Wilson" <ianmwilson@earthlink.net>
- 44) [147474] Thanks for the cards/Comment on EMRFD software  
by Mike Czuhajewski <wa8mcq@comcast.net>
- 45) [147475] Re: Pesky Texan Armadillo Chase - Last Update  
by "Doc - W5TB" <w5tb@arrl.net>
- 46) [147476] Re: homebrewing ultra-lightweight feedline  
by "Rob Matherly" <w0jrm@arrl.net>
- 47) [147477] Re: homebrewing ultra-lightweight feedline  
by "Mike Yetsko" <myetsko@insydesw.com>
- 48) [147478] Re: homebrewing ultra-lightweight feedline  
by "Mike Yetsko" <myetsko@insydesw.com>
- 49) [147479] Getting Started with SMD Soldering  
by "James P. Rybak" <jrybak@mesastate.edu>
- 50) [147480] Re: homebrewing ultra-lightweight feedline  
by "Mark Andrews" <KE4IOF@KE4IOF.com>
- 51) [147481] PM3A has been spoken for  
by "Doc K0EVZ" <dock0evz@earthlink.net>
- 52) [147482] Re: Getting Started with SMD Soldering  
by "Mike Yetsko" <myetsko@insydesw.com>
- 53) [147483] Re: Pesky Texan Armadillo Chase - Last Update  
by "Doc K0EVZ" <dock0evz@earthlink.net>
- 54) [147484] Re: homebrewing ultra-lightweight feedline  
by "Mark Andrews" <KE4IOF@KE4IOF.com>
- 55) [147485] Re: Pesky Texan Armadillo Chase - Last Update  
by "n1ln@earthlink.net" <n1ln@earthlink.net>
- 56) [147486] Re: homebrewing ultra-lightweight feedline  
by W2AGN <w2agn@w2agn.net>
- 57) [147487] Re: homebrewing ultra-lightweight feedline  
by "Mike Yetsko" <myetsko@insydesw.com>
- 58) [147488] Parts  
by "Harold Smith" <harold.smith1@worldnet.att.net>
- 59) [147489] Re: Getting Started with SMD Soldering  
by Steve.Lawrence@ITWFEG.COM
- 60) [147490] WTB: K1MG Digital Display  
by "Ron Pfeiffer" <n1zsw@hotmail.com>
- 61) [147491] Re: Getting Started with SMD Soldering  
by Robert Grizzard <grizzarv@mindspring.com>
- 62) [147492] Free course material for ARRL Cont. Ed. Emergency Comm.  
by Alex <kr1st@amsat.org>
- 63) [147493] Antenna Question  
by "Byron Tatum" <bjtatum@ev1.net>
- 64) [147494] Re: Pesky Texan Armadillo Chase - Last Update  
by "n1ln@earthlink.net" <n1ln@earthlink.net>
- 65) [147495] WI QSO Party  
by Larry Cahoon <lejek@erols.com>
- 66) [147496] Re: Pesky Texan Armadillo Chase - Last Update  
by "n1ln@earthlink.net" <n1ln@earthlink.net>
- 67) [147497] Re: homebrewing ultra-lightweight feedline

by Tom Popovic <ki3r@yahoo.com>

-----  
Date: Tue, 11 Mar 2003 23:49:00 +0000  
From: "Bruce Prior" <n7rr@hotmail.com>  
To: unlisted-recipients;; (no To-header on input)  
Subject: [147431] Tuesday Night Demo of Argonaut V & SGC ADSP2 in Ferndale, WA  
Message-ID: <BAY1-F215unxTkV04a1000233a7@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

This evening, Tuesday, I will be demonstrating the new Ten-Tec Argonaut V MF-HF transceiver with the new SGC ADSP2 noise attenuator, tone rejector and bandpass filter installed inside it at the meeting of the Mount Baker Amateur Radio Club in Ferndale, north of Bellingham, WA. The meeting takes place in the community center building in Pioneer Park. From the Main Street exit on I-5, drive west on Main Street, then south on 1st to the Pioneer Park arch. Follow the people emerging from vehicles with call sign license plates into the building which was built in 1925, the year RST was invented! With help from Rodger, KK7LK, we will monitor the audio output of the Argonaut V using digital soundcard software, so attendees will be able to see as well as hear the effects of numerous QRM and QRN-fighting facilities of the Argonaut V when teamed up with the brand new ADSP2 board. Non-members as well as members of MBARC are cordially invited. The meeting starts at 1900. My demo will probably begin about 1940.  
73. Bruce Prior N7RR

-----  
Help STOP SPAM with the new MSN 8 and get 2 months FREE\*  
<http://join.msn.com/?page=features/junkmail>

-----  
Date: Tue, 11 Mar 2003 23:57:00 +0000  
From: "Alan Fryer" <N3BJ@hotmail.com>  
To: qrp-1@Lehigh.EDU  
Subject: [147432] FS: Norcal 40A (Club Offering)  
Message-ID: <0E30kyCKDkb9pPFR6sK0001b68c@hotmail.com>

Too many rigs, offering up this collector's item at original cost....

----- Original Message -----

From: N3BJ@hotmail.com  
To: qrp-1@Lehigh.EDU  
Date: Sun 03/09/2003 16:40  
Subject: FS: Norcal 40A (Club Offering)

For Sale: Norcal 40A, kitted by Norcal, circa 1994. This is the improved version of the original Norcal 40 club offering. In the aluminum case with silk screened front and back panel. Works fine, like new, no mods, with original manual.

Note: This is NOT the Wilderness Radio version.

\$105 shipped

Alan, N3BJ  
Bent Mountain, VA

-----  
Date: Tue, 11 Mar 2003 17:59:45 -0600  
From: Chuck Carpenter <w5usj@9plus.net>  
To: k5di@zianet.com,  
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [147433] Re: Armadillo Hunt [most in S. Texas]  
Message-ID: <3.0.2.32.20030311175945.007f0150@mail.9plus.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

I don't think so, Karl.

13-- Houston and surrounding suburbs  
4 -- Austin and surrounding suburbs  
2 -- Dallas suburbs (North Texas)  
1 -- East Texas - me in the boonies 65 mi East of Dallas

Houston and suburbs are a big long jump to the South from North East Texas

>the usual Fox Hunt except there are 20 Armadillo operators for the most  
>part in NE Texas. The Hunt period is identical to a Fox Hunt. Go to this  
>web page and get all the details:

>  
> <http://www.w5nc.org/ptac/default.htm>  
>

Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1  
Rock-Mites on 80, 40, 30, 20 and 15 Meters  
QRP-ARCI #5422, QRP-L #1306, QRPp-I #115, ARS #1280, SOC #57  
Zombie #759, COG #11, 6 Club #201, NETXQRP <http://www.netxqrp.org>

-----  
Date: Tue, 11 Mar 2003 18:48:40 -0500  
From: "Rex Harper" <w1rex@megalink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Cc: "Dennis Marandos - K1LGQ - Brookline, NH" <k1lgq@dennis.mv.com>  
Subject: [147434] Lobstercon 2003 is on!  
Message-ID: <003f01c2e828\$df6d18c0\$3f3ca43f@stickfarmers>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Greate Gangue of QRP Dudes and Dudettes,

I am pleased to announce that LOBSTERCON 2003, the greatest QRP, camping and lobster fest this side of Limerick, Maine is on for 2003! I just confirmed the campsite reservations with the campground people (same place as last year for veterans of Lobstercon 2002). This year will be bigger, better AND more organized!( I have help in the wings..)

Time: Friday and Saturday nights July 11 & 12, 2003

Place: Thomas Point Beach and Campground  
                Brunswick, Maine

Cost: ONLY....\$35 bux per person

includes:     - entrance and overnight camping fees for 2 nights  
                        regular tent sites.....no hookups etc  
                        - communal ride to/from the no host dinner on

Friday night

etc) for Saturday lunch

never seen

lobster tank, MAINE

expert Lobstercon staff

with 'so called experts'

- cookout lunch fixins (burgers,dogs,chips,  
- FABULOUS fresh from the ATLANTIC Ocean,  
                the insides of an icky supermarket  
                lobster dinner cooked on site by our  
- xtra tall trees for hanging your antlers  
- informal but informational discussions  
- non-RF based intersite communication

system

- PRICELESS ANTIQUE ELECTRONIC EQUIPMENT  
swappin' sellin' tradin' and just plain

givin' awayin'

- BUNCHES of QRP fun!

Stay tuned for further updates from the Lobstercon 2003 promotional department and register your interest to be kept 'in the loop' (added to the Lobstercon 2003 mailing list) by replyin' back to yours truly....

W1REX      Rex Harper      "The Tinman"

-----  
Date: Tue, 11 Mar 2003 16:54:44 -0800  
From: Ted Buckley <tedb@aracnet.com>  
To: plburbank@earthlink.net,  
    "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [147435] Re: Mystery part  
Message-ID: <5.1.0.14.2.20030311165341.03a75380@mail.aracnet.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

If you're into "ugly" construction, you can always use them as stand offs.

73, Ted WA7DFD

At 06:13 PM 3/11/03 -0500, Pete Burbank wrote:

>At 03:45 PM 3/11/2003, Nick Kennedy wrote:

>

>>SNIP

>>72--Nick, WA5BDU

>>

>>Let us know what you determine.

>

>Well, between Nick's suggestion to put some HV on it and Gary WA6DTX's

>idea that these might be

>hi megohm resistors, the mystery is solved. At 360 volts 10 uA flows so

>they are 36 megohm resistors.

>If any body needs any let me know, got a whole handful, (not exactly the

>sort of part I use often) HI! :-)

>Thanks guys

>Pete NV4V

>

-----  
Date: Tue, 11 Mar 2003 19:59:30 -0500  
From: "ke4vpn" <ke4vpn@carolina.rr.com>  
To: <qrp-1@lehigh.edu>  
Subject: [147436] QRP items for sale again  
Message-ID: <005e01c2e832\$a33fee40\$123cd318@home3onrgm2ft1>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hello gang,  
Been out of the QRP world for awhile, but im back and have collected some more gear that I am getting rid of. I have bought another K2 and a Argonaut V, so these items are no longer needed.

Wilderness Sierra with KC2 display/keyer with 5 band modules  
OHR WM-2 wattmeter  
Vectronics VEC-841 tunable cw audio filter  
Bencher XZ-2 audio filter  
MFJ-9020 20 meter CW rig  
Ten Tec Corsair II with matching remote VFO and PS. Has 1.8ssb, 500hz and 250hz filters installed. In very nice condition and works fine. Very nice cw rig.

I also have a huge collection of torrids, caps, resistors, switches, knobs and etc. that im trying to figure out how to sell? Would be about 6 cabinets full of misc parts if anyone is interested. Would include several soldering irons, nice adjustable dual metered ps, several misc tins and boxes for QRP projects. Too much to list here. Thousands of parts. Interested in selling the whole lot of parts, cabinets, boxes, etc in one lot.

Please email direct with questions, not interested in trading, that's how I acquired most of this hi. I can be reached at ke4vpn@carolina.rr.com I have been very busy lately and have not had time to do much operating, so more equipment may come later. I have not even had time to finish building my third K2. Email with questions, and I can provide pics if needed of everything.

Thanks

Ronnie

KE4VPN "A wanna-be CW Operator"



-----  
Date: Tue, 11 Mar 2003 18:03:19 -0700  
From: "Chris Trask" <chistrask@earthlink.net>  
To: <k6whp@verizon.net>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [147437] Re: Mutual Inductance Coefficient and Toroid Impenace  
Message-ID: <010c01c2e833\$2d533880\$570c9a40@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

On Monday, March 10, 2003 9:33 AM, William Phinizy wrote:

>  
> (2) How does one -- generally -- determine the impedance of  
> the windings of a toroid transformer? Inductor?  
>  
> (3) Mutual inductance is defined (from one of my references)  
> as the square root of the primary inductance times the  
> secondary inductance. Is this pretty close to gospel?  
>  
> My reason for asking #3 is that Micro Cap derives  
> transformers by having you supply the primary inductance,  
> secondary inductance, and "k" or mutual inductance  
> coefficient. The last parameter is defined as:  
>  
> 
$$k = \frac{M}{\sqrt{P_s * L_s}}$$
  
>  
> Where M is the mutual induuactance coefficient. If that is  
> so, then it appears that the k will always be 1 since the  
> reference definition of mutual inductance is the same as the  
> expression in the denominator of the equation above..  
>

Bill,

In my Applied Microwave & Wireless article on wideband transformers, I outlines a procedure for testing transformers and determining the couling coefficient and mutual inductance. AM&W is no longer being published, but if anyone out there took the time to download that article, perhaps they could forward you a copy.

And if so, could you please forward the article to me? I'll put it on my web page so that others can obtain it.

[illegible]

Chris Trask / N7ZWY  
Principal Engineer  
Sonoran Radio Research  
P.O. Box 25240  
Tempe, Arizona 85285-5240

Email: [christrask@earthlink.net](mailto:christrask@earthlink.net)  
<http://www.home.earthlink.net/~christrask>

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```
At 06:13 PM 3/11/2003 -0500, you wrote:
>At 03:45 PM 3/11/2003, Nick Kennedy wrote:
>
>>SNIP
>>72--Nick, WA5BDU
>>
>>Let us know what you determine.
>
>Well, between Nick's suggestion to put some HV on it and Gary WA6DTX's
>idea that these might be
>hi megohm resistors, the mystery is solved. At 360 volts 10 uA flows so
>they are 36 megohm resistors.
>If any body needs any let me know, got a whole handful, (not exactly the
>sort of part I use often)
```

Pete,

It'll only take 720,000 in parallel to make a 50 ohm dummy load. IIf they're 1/8th-watt (they sound pretty small from your description) that's still a 90 kW load.

Dave

-----  
Dave Hinerman  
WD8CIV@att.net

-----  
Date: Wed, 12 Mar 2003 00:52:28 +0000  
From: Larry Cahoon <lejek@erols.com>  
To: qrp-l@lehigh.edu  
Subject: [147439] USA-CA all QRP  
Message-ID: <5.1.0.14.0.20030312004917.02b47e40@pop.erols.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

I just got a short note from Kyle, WA4PGM. I don't have many details yet, but after 20 years of effort he finished up USA-CA all QRP with a 75 meter QSO with a fixed station in Davie, NC. I've got to say congratulations to Kyle and a job well done. He did it mixed mode - it still has not been done all CW.

When I get more details from Kyle I'll have to update the web site.

73 de Larry.....WD3P  
<http://www.wd3p.net/>

-----  
Date: Tue, 11 Mar 2003 19:10:15 -0500  
From: "Rex Harper" <w1rex@megalink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [147440] LOBSTERCON 2003....better formattin'  
Message-ID: <006701c2e82b\$c29e7ec0\$3f3ca43f@stickfarmers>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

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- cookout lunch fixins (burgers,dogs,chips,  
etc) for Saturday lunch
- FABULOUS fresh from the ATLANTIC Ocean,  
never seen the insides of an icky supermarket  
lobster tank, MAINE lobster dinner cooked  
on site by our expert Lobstercon staff
- xtra tall trees for hanging your antlers
- informal but informational discussions  
with "so called experts"
- non-RF based intersite communication system
- PRICELESS ANTIQUE ELECTRONIC EQUIPMENT  
swappin' sellin' tradin' and just plain givin'

awayin'

- BUNCHES of QRP fun!

Stay tuned for further updates from the Lobstercon 2003 promotional  
department and register your interest to be kept 'in the loop' (added to the  
Lobstercon 2003 mailing list) by replyin' back to yours truly....

W1REX      Rex Harper      "The Tinman"

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Date: Tue, 11 Mar 2003 20:36:52 EST  
From: JClinton46@aol.com  
To: qrp-l@lehigh.edu  
Subject: [147441] re: Ghost towns  
Message-ID: <4d.2ce7d2a3.2b9fe934@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

I went to the Ghost Towns site. Pretty neat. Even found some ghost towns that I was not aware of in my part of the country (GA). We are not exactly known for having a lot of ghost towns like the western US.

A caution: I found several mistakes for GA and Alabama. You might want to double check the info/directions for your destination before you head out to operate. (And yes I did send corrections for the ones I was sure about)

73,  
Clint Poss  
KE4FDT

-----  
Date: Tue, 11 Mar 2003 18:28:26 -0800  
From: "Ian Wilson" <ianmwilson@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [147442] Identifying coils/xfrmrs  
Message-ID: <009e01c2e83f\$162c9780\$0b02a8c0@WorkGroup>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I've plundered various radios, tvs, cb rigs, and swap meet effluvia for a while. Most things I can identify with the help of the web and my trusty NTE crossreference. But I have a growing stack of shiny metal cans with various colo[u]r slugs inside, and would like to identify some of these. Any pointers would be appreciated.

73 de ian, k3imw/6

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Date: Tue, 11 Mar 2003 20:52:27 -0600  
From: Pat Cain <pcain@ix.netcom.com>  
To: qrp-1@Lehigh.EDU  
Subject: [147443] FOX: Final log K0PC  
Message-ID: <5.1.1.6.0.20030311205032.02f67260@mail.mchsi.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Here's the final log for my week 18 run. 63 QS0s.

Thanks to all.

0201	KK5LD	559	TX	DAN	5W
0201	N0UR	579	MN	JIM	5W
0203	K9IUA	559	IA	KEVIN	5W
0203	W5YR	559	TX	GEORGE	5W
0204	W5USJ	559	TX	CHUCK	5W
0205	WA9TZE	559	WI	JIM	5W
0206	N9NE	599	WI	TODD	5W
0207	N4ROA	559	VA	DAN	5W
0208	W9XU	559	WI	LON	5W
0209	KQ5U	559	TX	TERRY	5W
0210	VA6RF	559	AB	EARL	5W
0210	VE6EX	559	AB	DAN	5W
0212	N3BJ	559	VA	ALAN	5W
0213	KR5C	559	TX	GEORGE	5W
0213	N9AW	559	WI	JERRY	5W
0215	VE5RC	559	SK	BRUCE	5W
0215	K0FRP	579	CO	AL	5W
0216	NA8M	559	MI	JOHN	5W
0219	KK5NA	559	TX	JOE	5W
0220	WE9K	599	WI	GLENN	5W
0221	NK9G	559	WI	RICK	5W
0222	K8CV	559	MI	WALT	5W
0222	KI0II	559	CO	RON	5W
0223	K5ZTY	559	TX	BILL	5W
0224	K5SR	559	TX	DALE	5W
0225	K2ZN	559	NY	AL	5W
0226	W0CH	559	MO	DAVE	5W
0227	AC5JH	559	OK	TOM	5W
0228	K3PH	559	PA	BOB	5W
0228	WD9F	559	IL	WOODY	5W
0229	K5JHP	559	TX	BILL	5W
0231	KC9LC	559	VA	RANDY	5W
0233	KR0U	559	CO	TIM	5W
0235	AA50	559	LA	VERN	5W
0238	K5DW	559	TX	DON	5W

0239	WA8BXN	559	OH	MIKE	5W
0243	NV4V	559	KY	PETE	5W
0244	N4BP	559	FL	BOB	5W
0247	W5TB	559	TX	DOC	5W
0249	K5PSH	559	TX	JERRY	5W
0250	AF4LQ	559	KY	MIKE	5W
0252	K4FB	559	FL	PAUL	5W
0256	AF4PS	559	FL	MAC	3W
0257	K40AH	559	GA	GAREY	5W
0258	N5ZE	559	TX	LEW	5W
0259	W8YMO	559	OH	HARRY	5W
0301	K9DC	559	IN	DAVE	5W
0303	K5ZTY	559	TX	BILL	5W
0311	KB9YIG	559	IN	TONY	500MW
0314	KS4L	559	AL	RANDY	5W
0326	K5AIC	559	MS	HERB	5W
0332	AD6JV	559	VA	BILL	5W
0333	K5OI	559	OK	TIM	5W
0335	W9JOP	559	VA	BOB	250MW
0341	N2WW	559	CO	LARRY	5W
0342	N1FN	559	CO	ET	5W
0345	W2AGN	559	NJ	JOHN	3W
0347	WS4S	559	TN	CONARD	5W
0351	W7KXB	559	AZ	BILL	5W
0355	N1TP	559	FL	TOM	5W
0358	N0RC	559	CO	ROD	5W
0400	W0MC	559	FOX	JERRY	
0400	K0PC	559	FOX	PAT	

-----

Date: Tue, 11 Mar 2003 20:53:46 -0600  
 From: "Doc K0EVZ" <dock0evz@earthlink.net>  
 To: "Ten-Tec Relector" <tentec@contesting.com>,  
       "qrp-l reflector" <qrp-l@lehigh.edu>  
 Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>  
 Subject: [147444] Value of PM3A  
 Message-ID: <412003331225346769@earthlink.net>  
 MIME-Version: 1.0  
 Content-type: text/plain; charset=US-ASCII

Gang:

Having to make some tough decisions here....and one is to sell a beautiful Ten-Tec PM3A. This rig is truly pristine and looks like it just came from the factory. Also have pristine AC-4 and AC-5 accessories.

Question is--What value does this exceptional setup have? I don't even know where to begin, so all input will be appreciated.

73,

--Doc/K0EVZ

-----  
Date: Tue, 11 Mar 2003 18:54:02 -0800 (PST)  
From: Nelson Winter <thenels@go.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [147445] Schematic Software - Thanks  
Message-ID: <5486110.1047437642794.JavaMail.thenels@gomailjtp05>  
MIME-version: 1.0  
Content-type: text/plain; charset=iso-8859-1  
Content-transfer-encoding: 7BIT

Thanks to everyone who responded with their software suggestions. I was able to get the job done.

Less = More

-----  
GO.com Mail  
Get Your Free, Private E-mail at <http://mail.go.com>

-----  
Date: Tue, 11 Mar 2003 23:34:15 -0500  
From: Pete Burbank <plburbank@earthlink.net>  
To: WD8CIV@worldnet.att.net,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [147446] Re: Mystery part  
Message-ID: <5.2.0.9.0.20030311231130.00a402b0@Earthlink.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 08:04 PM 3/11/2003, David Hinerman wrote:



>Pete,  
>  
>It'll only take 720,000 in parallel to make a 50 ohm dummy load. IIf  
>they're 1/8th-watt (they sound pretty small from your description) that's  
>still a 90 kW load.  
>  
>Dave  
>  
>  
>-----  
  
>Dave Hinerman  
>WD8CIV@att.net

Actually Dave I toyed with that but did not run the numbers. Got a kick out of your post!

One good suggestion was by John Kirk VK4TJ was to use as standoffs in ugly construction. I wonder how many of these Dan's Small Parts has. It's in a Tektronix assortment if anyone is curious.

Tremendous stash of high quality parts for a few rasbucknicks.....usual disclaimer.

40 + years of melting solder

73,

Pete NV4V

-----  
Date: Wed, 12 Mar 2003 00:14:32 -0500

From: "sslyon" <sslyon@megalink.net>

To: <w1rex@megalink.net>,

"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [147447] Re: LOBSTERCON 2003: Free Range Lobsschters? (drool...)

Message-ID: <005001c2e856\$448518c0\$0ac8e742@megalink.net>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Being involuntarily environmentally challenged / confronted and otherwise physteritated, I must ask... will the lobsters be certifried "Free Range"??

73

AA1MY

-----  
Date: Tue, 11 Mar 2003 22:25:14 -0700  
From: "KXBill" <w7kxb@cox.net>  
To: <wkhibbert@juno.com>,  
    "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [147448] Re: MFJ-914 'Tuner Extender' ??  
Message-ID: <011601c2e857\$c2c22f60\$cfd60344@ph.cox.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
    charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Master Mobile and Morrow Radio use to manufacture base matching coils for a mobile whip set up. It was two coils, a grounded coil in series with a roller coil, in series with the antenna. The coax feed point was picked up a few turns above ground which was the 50 ohm point. The roller coil was in between the 50 ohm point and the antenna base. By inducing a little induction, one could qsy the antenna down from the high end of the band. . The Master Mobile coil was rotated by hand. Morrow had a small 6volt, later, 12v. reversible DC motor that was controlled from up front. No SWR bridges those day's. You knew it was on frequency by watching a FS meter. Same principal could be used on open wire line to get it into a range where the ATU can handle it. You can find the ad's for these old coils in CQ and QST back in the late 40's and 50's. I'm still using the Morrow. Works fine, lasted a long time.

Cheers  
kxBill

-----  
Date: Wed, 12 Mar 2003 00:26:58 -0800  
From: "W2WU" <w2wurjj@verizon.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [147449] Re: QSL Software - Thanks  
Message-ID: <000d01c2e871\$442acf80\$18f9998d@w2wurjj>  
MIME-Version: 1.0  
Content-Type: text/plain;  
    charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Thanks to everyone who responded with their software suggestions. I'm trying the designs. 73, Ron, W2WU

-----  
Date: Tue, 11 Mar 2003 22:12:16 -0800  
From: "Bob Okas" <vintage2@earthlink.net>  
To: "Leon Heller" <leon\_heller@hotmail.com>,  
      "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [147450] RE: Positive resist exposure times?  
Message-ID: <FHEJJJPJADNLFNJBFOFAEEKNCDA.vintage2@earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
              charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Leon,

Thanks for the tip. I purchased a very modestly priced exposure test kit which includes several small board samples. I'll try the card technique as well.

73,  
Bob - W3CD

-----Original Message-----

From: Leon Heller [mailto:leon\_heller@hotmail.com]  
Sent: Tuesday, March 11, 2003 9:40 AM  
To: vintage2@earthlink.net; Low Power Amateur Radio Discussion  
Subject: Re: Positive resist exposure times?

----- Original Message -----

From: "Bob Okas" <vintage2@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Sent: Tuesday, March 11, 2003 5:09 PM  
Subject: Positive resist exposure times?

> Hi Folks,

>

> This one has me stumped. I unsuccessfully attempted (twice) to expose  
> a

> copper clad board coated with positive resist. In both cases, it appears  
> that the exposure time was too short. Does anyone have experience making  
> positive resist PC boards, preferably using Injectorall sensitized boards?  
> I've made negative-resist boards using the same UV source, an F15T8BLB  
tube,

> and the results were great. The positive resist appears to be much slower.

Different board suppliers use different resists.

I use about 8 mins with two 12" tubes about 10 cm from the artwork/PCB.

The best way to ascertain the correct exposure is to use the photographic 'test strip' technique. Cover the artwork/PCB with a piece of card and move it so as to expose more every 1 minute.

73, Leon

--

Leon Heller, G1HSM

leon\_heller@hotmail.com

[http://www.geocities.com/leon\\_heller](http://www.geocities.com/leon_heller)

-----  
Date: Wed, 12 Mar 2003 01:29:20 -0500 (EST)  
From: "Scott Rosenfeld [N7JI]" <ham@w3eax.umd.edu>  
To: qrp-l <qrp-l@lehigh.edu>  
Subject: [147451] Dayton QRP Banquet door prizes!  
Message-ID: <Pine.LNX.4.44.0303120118030.29881-100000@w3eax.umd.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi everyone -

(please feel free to forward this to anyone you believe may find it of interest)

With regard to the Dayton QRP Banquet (Saturday, May 17, 2003), I'm once again in charge of soliciting for door prizes.

Got a neat product?

Have a club?

Want some publicity?

Got a new kit you're putting out?

How about a magazine?

This is the perfect opportunity. Nothing draws as much attention as a door prize given away in front of hundreds of "captive" QRPers

(stationary, nearly comatose in some cases after walking all day, and then eating a huge meal).

Want to give a prize to the youngest licensed ham in attendance?

How about the oldest?

How about the longest licensed period?

We can do that for you!!!

Anyway, door prizes greatly add to the fun of the banquet, and provide exposure for the donor.

If you're interested in donating a door prize, please contact me.

Unfortunately, I'll not be at the fest this year :(

However, FDIAM VIP Tom Dooley, K4TJD, WILL be there - and he's driving, and was nice enough to volunteer to collect and bring the door prizes all the way from Georgia.

Prizes can be sent to:

Mr. Tom Dooley, K4TJD  
4942 Dock Court  
Norcross, GA 30092

He can be reached via: phone: 404-459-4457 E-mail: [tdooley@attbi.com](mailto:tdooley@attbi.com)

Thank you for your time. Should you desire more information, it may be found at QRP ARCI's FDIAM web site,

<http://www.qrparci.org/fdim64.html>.

And don't forget to register for the banquet while you're at it!

72,

Scott N7JI

--

Scott Rosenfeld ARS N7JI  
541-684-9970 Eugene, OR Land o' much rain

If you find me on the air, I'm probably in my car  
ham@w3eax.umd.edu <http://w3eax.umd.edu/~ham>

-----  
Date: Wed, 12 Mar 2003 02:20:38 -0500  
From: sergio <sergio@village-buzz.com>  
To: qrp-1@Lehigh.EDU  
Subject: [147452] hw-8 - low-z headphones..  
Message-ID: <5.1.1.6.0.20030312021047.035866c8@mail.neobright.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

i started going through the qrp-1 archives on the hw-8 to get some walkman  
type headphones set up on my hw-8..

i got ends, and connectors.. the middle part has got me stumped..

i read about the audio transformer (rs 273-1380) that converts 1kohm to 8ohm..

so i went and got that, too..

i am just going to put this in line with the a 1/8" female and 1/4" male  
adapter.. so i don't have to add anything to the radio..

my question is..

the transformer has a center tap.. on the 1k side.. blue.. black(ct).. and  
green...

the outputs are red and green..

do i need to do anything with the center tap?

ps.

got another qso today..

w1ar.. murray in georgia..

thanks!

---  
peace,  
sergio

www.village-buzz.com - "the village buzz"  
www.mp3.com/village\_buzz - "the rock n roll, baby!"  
www.coffee-black.com - rock photo!  
phone ... 419 606 0557  
to subscribe to The Village Buzz, send a blank email to:  
VB-Announce-subscribe@yahoogroups.com  
www.amazon.com/o/registry/3L7DM7FMR50QU <- buy me some swag!

-----  
Date: Wed, 12 Mar 2003 05:23:10 -0500  
From: Mike Czuhajewski <wa8mcq@comcast.net>  
To: qrp-1@Lehigh.EDU  
Cc: Mike Czuhajewski <wa8mcq@comcast.net>  
Subject: [147453] Re: Identifying coils/xfrmrs  
Message-ID: <000301c2e881\$61db9180\$6401a8c0@gambrl01.md.comcast.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=iso-8859-1  
Content-transfer-encoding: 7BIT

Sorry I can't be of much help in identifying things, but here's a bit of wisdom that Paul Harden, NA5N, passed along a number of months ago: ignore the color codes :-). The short answer is that whoever made a particular can put whatever color he wanted on the cores, for his own identification purposes, and there is no industry wide color code standard. You could have 5 cans with black cores, and all 5 could be completely different. If you know who the manufacturer was, the color code could tell you something but otherwise it can't be relied on.

Unfortunately this is also the case with toroidal cores. The only reason that we "know" the color code on a powdered iron core is because the ones we buy all come from a single manufacturer. It's not an industry standard color code for powdered irons; it's just that manufacturer's code. All of the powdered irons hams have bought over the years come from places like Amidon, Palomar, CWS Bytemark, etc, and they are all resellers of Micrometals products. The color code we know is actually the Micrometals code.

You can check out their page at [www.micrometals.com](http://www.micrometals.com). There's a lot of good info there, and you can even download a free toroid calculator. It only does powdered irons and it's DOS based, but it's useful. Look under Software, and download "RF design software." There's also some good info under Application Notes. Scroll down to RF Applications, and you'll see a pair of good ones by Jim Cox, the president.

If you go to a hamfest and see toroids at bargain prices, don't buy them just because they have a certain color. They could be powdered iron or

ferrite, and could have any permeability value under the sun. I got a huge bargain several years ago on several hundred yellow, type 6 cores at a hamfest but I only bought them because they were in a sealed bag from the manufacturer which clearly identified them.

73 and queue our pea DE WA8MCQ

-----  
Date: Wed, 12 Mar 2003 05:50:16 -0600  
From: Chuck Carpenter <w5usj@9plus.net>  
To: qrp-l@lehigh.edu, George Baker <w5yr@att.net>,  
Lew Paceley <lew@paceley.com>,  
Subject: [147454] NETXQRP Club Meeting, Saturday 15 March  
Message-ID: <3.0.2.32.20030312055016.007ee610@mail.9plus.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

QRPers,

All who are interested are invited to attend.

Saturday, March 15, 2002 -- 1:00 to 3:00 pm (or so)

Los Hermanos  
1500 W. Moore Ave (US80 West)  
Terrell, TX 75160  
972-524-5580

Directions:

Los Hermanos is on the West side of Terrell. It is on the North side of US80 (Moore Ave.) about a block East of the intersection of US80, SH205, and SH148. SH205 goes North from US80 toward Rockwall and SH148 goes South back across IH20. Los Hermanos is a small restaurant next to a Payless Shoe Source.

If you have a favorite QRP something you'd like to bring along, please do. Each month we have a \*Door Prize\* drawing. Bring an item to share for the door prize table. A drawing is held at the end of the meeting to \*redistribute\* the wealth. Everyone attending gets a chance at one (or more) of the prizes. Good food, good conversation and good company. Come join the fun!

Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1  
Rock-Mites on 80, 40, 30, 20 and 15 Meters



QRP-ARCI #5422, QRP-L #1306, QRPP-I #115, ARS #1280, SOC #57  
Zombie #759, COG #11, 6 Club #201, NETXQRP <http://www.netxqrp.org>

-----  
Date: Wed, 12 Mar 2003 07:23:11 -0600  
From: "David Bixler" <qrp@netins.net>  
To: "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>  
Subject: [147455] FSQRP Wednesday Warble  
Message-ID: <000b01c2e89a\$874440c0\$e915b9cc@Host>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi Gang:

The Four State QRP Group will have our Wednesday Warble tonight at 9 PM central time. Look for us on or near to 3580.5 KHz on PSK-31 mode. All QRP'ers within range are invited to drop in and say howdy.

Note that the weatherman is predicting storms here in the Four State area tonight, so if you don't see anything at warble time, we may have QRT'ed to dodge the lightning. Probably an alternate station will get things started, but you can never know how bad the storms will be in this part of the country.

72, Dave

David Bixler           W0CH  
Seneca, Missouri

QRP: Little radios, Big Fun!

QRP Web Site:           <http://w0ch.com>  
Four State QRP Group: <http://w0ch.com/fsqrp>

-----  
Date: Wed, 12 Mar 2003 05:48:05 -0800  
From: "Jerry Bartachek" <KD0CA@praisescrbe.com>  
To: "QRP-L Post Msg" <QRP-L@LEHIGH.edu>

Subject: [147456] FS: Homebrew Parts  
Message-ID: <200303120548.AA306315450@praisesscribe.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

I have the following list of homebrew parts available for sale as a package, not sold separately.

1 new SBL-1 mixer, 1 new 2N3553 transistor and matching heatsink, 2 APC-type ceramic body variable capacitors (30 pf & 50 pf, respectively), 4 new 1000 pf poly capacitors, 2-100 uH mini chokes, 6 T50-6 (I think) "yellow" torroids, 1 powdered iron 0.44 inch diameter torroid, 3 powdered iron 0.375 inch diameter torroids, 1 ceramic HC-6/U crystal socket, 3 HC-6/U crystals (7.022.22 KHz, 7061.11 KHz, & 14063 KHz), two new 100 pf npo 50 vdc capacitors in blister packs (Tandy 272-152), two new 450 pf npo 50 vdc capacitors in blister packs (Tandy 272-153), and two new 15 - 150 pf pcb trimmer capacitors in a blister pack (Tandy 272-1339).

Asking \$35.00, shipping prepaid in continental US. Other reasonable offer considered.

Jerry KD0CA

kd0ca@praisesscribe.com

---

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---

Date: Wed, 12 Mar 2003 07:54:30 -0600  
From: "David Bixler" <qrp@netins.net>  
To: "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>  
Subject: [147457] Four State QRP Group Luncheon Meeting Saturday  
Message-ID: <000101c2e89e\$e73e6ce0\$e915b9cc@Host>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Hi Gang:

The Four State QRP Group will have our next luncheon get-together on Saturday, March 15th at Barney's Kitchen in Seneca, MO. Lunch will be at 11:00 AM. All QRP'ers and homebrewers are invited to have lunch and share some fun.

Seneca is located on state route 43, 12 miles south of Joplin Interstate 44 exit 4. Barney's is located in the south end of town on the main street. Driving directions are provided on the group web site and we will monitor 146.52 FM if you need help finding us.

The weatherman is predicting partly cloudy and 72 degrees for Saturday, so after lunch we should be able to adjourn to the city park and put some portable stations on the air. It's been a long cold winter so let's celebrate spring with some outdoor fun if we can.

If you can't make the meeting, watch the usual QRP frequencies for the Four State gang on the air starting around 12:30 or so.

72, Dave

David Bixler            W0CH  
Seneca, Missouri

QRP: Little radios, Big Fun!

QRP Web Site:            <http://w0ch.com>  
Four State QRP Group: <http://w0ch.com/fsqrp>

-----  
Date: Wed, 12 Mar 2003 04:10:10 -0800 (PST)  
From: "W2BJ" <barry@w2bj.com>  
To: n7rr@hotmail.com  
Cc: qrp-l@Lehigh.EDU  
Subject: [147458] Re: Tuesday Night Demo of Argonaut V & SGC ADSP2 in Ferndale, WA  
Message-ID: <20030312041010.7926.h016.c001.wm@mail.minsky.org.criticalpath.net>  
Content-Type: text/plain; charset=iso-8859-1  
Content-Disposition: inline  
Content-Transfer-Encoding: 7bit  
MIME-Version: 1.0

On Tue, 11 Mar 2003, "Bruce Prior" wrote:

>  
> This evening, Tuesday, I will be demonstrating  
the  
> new Ten-Tec Argonaut V  
> MF-HF transceiver with the new SGC ADSP2 noise  
> attenuator, tone rejector and  
> bandpass filter installed

Hi Bruce,  
I have recently purchased an Argonaut V and like  
it very much. Please tell me about the ADSP2 and  
how you installed in the Argo. Thanks.

72/73, Barry J. Minsky, W2BJ ARRL, QRP ARCI #8871,  
NorCal #1560, QRP-L, FISTS #2701, Century Club  
#569, Platinum #51, Silver #119, FISTS CW Club of  
Coastal Georgia, Knightlites, Adventure Radio  
Society #359, QCWA #29298, OOTC #3723, SOC #193,  
K2 #577, K1 #98, Rock Mite

-----  
Date: Wed, 12 Mar 2003 09:22:06 -0500  
From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>  
To: "Flying Pigs" <fpqrp-1@mpna.com>, <qrp-1@lehigh.edu>  
Subject: [147459] WTB: FT-817  
Message-ID: <721D3436A7C2B344A301FD4A413C71A9BFC6B5@kosh.ARRLHQ.ORG>  
content-class: urn:content-classes:message  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable

The ARRL Lab is looking to pick up an FT-817. I figured I would check =  
with youze guys first. Email me with a price. =20

If you ask less than the fair market value of rig, you may be able to =  
take a deduction for the difference. This is only useful to you if you =  
itemize your income taxes.

We will be using it mostly on receive, to do some RFI and =  
noise-measurment work. =20

73,=20  
Ed Hare, W1RFI

ARRL Lab  
225 Main St  
Newington, CT 06111  
Tel: 860-594-0318  
Internet: w1rfi@arrl.org  
Web: <http://www.arrl.org/tis>

> -----Original Message-----  
> From: kce [mailto:kce@chartermi.net]  
> Sent: Wednesday, March 12, 2003 8:00 AM  
> To: Flying Pigs  
> Subject: [fpqrp] heath hw9 for sale  
>=20  
>=20  
> have a excellent working hw9 for sale with warc band pak and=20  
> crystal filter  
> option installed. works great has some light scratches on=20  
> case \$200 shipped  
> in the conus. Have to move this one excess to my needs the=20  
> XYL gave me a K1.  
> contact me off list if interested can take money order or paypal  
> ken w8ob  
>=20  
>=20  
> -To unsubscribe, mail to majordomo@fpqrp.com, msg:=20  
> unsubscribe fpqrp-l -  
>=20

-----  
Date: Wed, 12 Mar 2003 09:14:13 -0700  
From: "Mike - K7AZZ" <k7azz@arrl.net>  
To: <qrp-l@Lehigh.EDU>  
Subject: [147460] FS: MFJ 971 Antenna Tuner  
Message-ID: <FIECJEOAOEJADOGFIAPFEEOEENAA.k7azz@arrl.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I am offering for sale an MFJ-971 Portable Antenna Tuner. It is a compact tuner (6"x6"x2.5") with selectable low power range for QRP operation. This unit is in excellent condition and comes with the original MFJ manual. Tunes coax, balanced lines, random wire on all HF bands 1.8-30 MHz. This is an easy to use cross-needle SWR/Wattmeter. Retail price new is \$99.95.

As new condition and only used at QRP power.

Your price is \$75.00 plus \$8.00 shipping via UPS with tracking number.

Reply off list to K7AZZ@arrl.net

73 Mike - K7AZZ

-----  
Date: Wed, 12 Mar 2003 11:20:11 -0500  
From: Scott Galloway <scott@defiant.mcgeorgecarco.com>  
To: qrp-l@lehigh.edu  
Subject: [147461] QRP gatherings  
Message-ID: <200303121620.h2CGKBVs007028@defiant.mcgeorgecarco.com>

Hello,

With all the qrp meetings being listed makes me wish there was something  
(group and or get together) in the Richmond, Va area.

Oh well, maybe I will be able to travel to one sometime. I'll be in Myrtle Beach  
in April and Pa in May. I could research clubs in those areas and pay a visit.

Just a thought,

Scott AE4TC

-----  
Date: Wed, 12 Mar 2003 08:33:26 -0800  
From: "William Phinizy" <k6whp@verizon.net>  
To: "QRP-L" <qrp-l@Lehigh.EDU>  
Subject: [147462] Circuit Simulation Software  
Message-ID: <005c01c2e8b5\$1cf81460\$d961e043@sydelpgnr79gmd>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Many thanks to those who responded on the mutual inductance and toroid impedance questions I asked. I was able to successfully simulate the circuit and -- as proof of the pudding -- built a live one that worked almost the same. Life imitating art? Maybe, but great fun anyway.

As I mentioned, I am using Spectrum Software's Micro Cap version 7. It allows you to draw circuits \*and\* simulate them. Since the commercial product is in the thousands, the free demo is understandably crippled. Its limitations are approximately 50 total components, 100 calculations, and limited filter design capability. But it is excellent for digital breadboarding and educational purposes. The web site is:

<http://www.spectrum-soft.com/index.shtm>

I just wanted to pass that information along. The download is a little hefty (3-4 MB as I remember) but the product is pretty good.

I was wondering, however, if anyone has a recommendation of a reasonably priced, full-featured software package that would suffice to overcome the Micro Cap limitations. Clearly, it need not include everything that Micro Cap or products of that level offer, but it would be neat to have a package that offered a graphical interface (in addition to net lists) with SPICE simulation.

Thanks in advance.

72,

Bill, k6whp

-----  
Date: Wed, 12 Mar 2003 10:00:49 -0700  
From: "John\_Evans" <jaevans@mail.codenet.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [147463] homebrewing ultra-lightweight feedline  
Message-ID: <200303121000.AA57737606@mail.codenet.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

greetings,

I am planning on making some lightweight open feedline for backpacking. I'll probably use some lengths of teflon wire.

Any brainstorming or suggestions for how to make the feedline separators? I'd like to get some spacing similar to 450 ladder line or larger.

tnx es 72 - john - n0hj

-----  
Date: Wed, 12 Mar 2003 09:11:44 -0800  
From: "Bill Jones" <kd7s@psnw.com>  
To: <jae@evans@mail.codenet.net>,  
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [147464] Re: homebrewing ultra-lightweight feedline  
Message-ID: <000901c2e8ba\$75f70800\$9110010a@fresno>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I have used 300 ohm twinlead and lightened it up by using a paper punch to punch out a gazillion holes in the center insulation.

=====  
Bill Jones - <><  
Sanger, California  
<http://www.psnw.com/~kd7s>  
=====

----- Original Message -----  
From: "John\_Evans" <jae@evans@mail.codenet.net>  
> I am planning on making some lightweight open feedline for backpacking.  
I'll probably use some lengths of teflon wire.

-----  
Date: Wed, 12 Mar 2003 12:13:16 -0500  
From: Jimmy Lee <jr@lradio@bellsouth.net>  
To: jae@evans@mail.codenet.net  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [147465] Re: homebrewing ultra-lightweight feedline  
Message-ID: <3E6F6AAC.4455C207@bellsouth.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit



Please reply to the board. I am also interested in this.  
Jimmy AE4DT

John\_Evans wrote:

> greetings,  
>  
> I am planning on making some lightweight open feedline for backpacking. I'll  
probably use some lengths of teflon wire.  
>  
> Any brainstorming or suggestions for how to make the feedline separators? I'd  
like to get some spacing similar to 450 ladder line or larger.  
>  
> tn timer 72 - john - n0hj

-----  
Date: Wed, 12 Mar 2003 11:25:52 -0600  
From: "Mark Andrews" <KE4IOF@KE4IOF.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [147466] Re: homebrewing ultra-lightweight feedline  
Message-ID: <014101c2e8bc\$6f660d90\$146f640a@MarkAndrews>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Interesting question.

Just brainstorming here...

What about using Soda Straws and anchoring with a touch of Cyanoacrylate?

Cut each straw to length, slot each end of the straw, slide in the wire and  
put a drop of glue on the slot (and wire). You should be able to roll up the  
finished product and it will be lightweight. Soda Straws are cheap and you  
can use a pair of kitchen shears or scissors to do the cutting.

I might try this myself.

Mark, KE4IOF

-----  
Mark A. Andrews

"You can't reason a person out of a position that the  
person wasn't reasoned into in the first place"

----- Original Message -----

From: "John\_Evans" <jaevans@mail.codenet.net>

> I am planning on making some lightweight open feedline for backpacking.  
I'll probably use some lengths of teflon wire.

>

> Any brainstorming or suggestions for how to make the feedline  
separators? I'd like to get some spacing similar to 450 ladder line or  
larger.

-----  
Date: Wed, 12 Mar 2003 12:25:00 -0500

From: "Glen Leinweber" <leinwebe@mcmail.cis.mcmaster.ca>

To: <jaevans@mail.codenet.net>

Cc: "qrp-l" <qrp-l@lehigh.edu>

Subject: [147467] Re: homebrewing ultra-lightweight feedline

Message-ID: <001e01c2e8bc\$4f4c6ea0\$07ea7182@mcmaster.ca>

MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

John,

Yes, you can make your own. But I vote for TV twinlead.  
Its very lightweight, very efficient, and doesn't snag up easily.  
However, it doesn't take well to scrunching up in the bottom  
of a tightly packed back-pack.

If you do roll your own, consider a feedline of twisted pair  
construction. Teflon wire twisted pairs can be quite efficient  
RF-wise. Impedance will be in the 100 ohm ballpark, but  
depends on how tight you twist. (Tight twists give lower Z).  
Try to twist at a constant one-twist-per-inch. Dunno why  
you want 450 ohm - its really not important.

-----  
Date: Wed, 12 Mar 2003 12:39:54 -0500 (Eastern Standard Time)

From: W2AGN <w2agn@w2agn.net>

To: qrp-l@Lehigh.EDU, jaevans@mail.codenet.net

Subject: [147468] Re: homebrewing ultra-lightweight feedline

Message-ID: <3E6F70EA.000001.11801@w2agn>

MIME-version: 1.0

Content-type: Text/Plain

Content-transfer-encoding: 7BIT

Whenever I think of lightweight feedline I remember some the Tony, W2GUM

brought to a NJQRP meeting. He took Rdaio Shack lightweight 300 ohm twinlead and with a paper punch, patiently punched out holes in the center insulation, leaving a "mini-ladder" line.

About the ultimate in lightweight open wire type feedline.

.  
+---+---+---+---+ John L. Sielke  
|W||2||A||G||N| <http://www.w2agn.net> [UPDATED]  
+---+---+---+---+ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

-----Original Message-----

From: jaevans@mail.codenet.net  
Date: Wednesday, March 12, 2003 12:29:28 PM  
To: Low Power Amateur Radio Discussion  
Subject: homebrewing ultra-lightweight feedline

greetings,

I am planning on making some lightweight open feedline for backpacking. I'll probably use some lengths of teflon wire.

Any brainstorming or suggestions for how to make the feedline separators? I d like to get some spacing similar to 450 ladder line or larger.

tnx es 72 - john - n0hj

-----  
Date: Wed, 12 Mar 2003 17:45:46 -0000  
From: "Ray Goff" <radioham@gmx.co.uk>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [147469] Re: homebrewing ultra-lightweight feedline  
Message-ID: <001901c2e8bf\$bfd32a80\$2ebc6751@starfishrcg>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

> Any brainstorming or suggestions for how to make the feedline separators? I'd like to get some spacing similar to 450 ladder line or larger.

How about plastic drinking straws from the local fast food emporium?

Ray. G4FON

-----  
Date: Wed, 12 Mar 2003 09:50:58 -0800  
From: "Ian Wilson" <ianmwilson@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [147470] Understanding IFT specs  
Message-ID: <003001c2e8bf\$f1eaf520\$0b02a8c0@WorkGroup>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Thanks to the (several) people who pointed me at Mouser & DigiKey catalogs. There is information in here on IF transformers that I can't find online.

I'm trying to understand the turns ratio and impedance information provided. The Mouser catalog shows the 10.7MHz IFT, part # 42IF123, as having a Pri:Sec impedance ratio of 25K:4K and a turns ratio of 7:1. OK, 25:4 is 6.25, which is pretty close to 7:1

Looking at the SW-20+ schematic (I didn't pick the 42IF123 randomly) we see this part with \*internal capacitor removed\* being resonated at 14MHz with a 27pF capacitor. This equates to an inductance of 4.8uH. This would resonate at 10.7MHz with 46pF of parallel capacitance.

Looking at the DigiKey catalog under TOKO coils, there are a four 10.7MHz IF transformers with primary inductances of 8.2uH through 68uH. No mention made of turns or inductance ratios, unfortunately.

Looking at the "25K" part of the Mouser spec. I assume that this is calculated taking into account the Q of the inductor in the parallel resonant circuit? Using the approximation  $R_p = \omega L Q$  gives a Q of about 80 (for  $R_p=25k$ ,  $L=4.8uH$ ,  $\omega=10.7MHz$ ). Is this the correct interpretation?

73 de ian, k3imw/6

-----  
Date: Wed, 12 Mar 2003 12:56:21 -0500  
From: "Richard Brummer, K2JQ" <k2jq@rcn.com>  
To: <scott@defiant.mcgeorgecarco.com>,  
      "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [147471] Re: QRP gatherings  
Message-ID: <028e01c2e8c0\$b1d3ae40\$6501a8c0@Brummer.cable.rcn.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
              charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Scott,

I know that the DC metro area is quite a ride for you, but the Northern Virginia group holds regular meetings that you might be interested in.

<http://www.novaqrp.org/meetings.html>

73

Dick K2JQ

> With all the qrp meetings being listed makes me wish there was something  
> (group and or get together) in the Richmond, Va area.

-----  
Date: Wed, 12 Mar 2003 13:03:35 -0500  
From: "Charles W3KC" <w3kc@starpower.net>  
To: <jae@evans@mail.codenet.net>,  
      "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [147472] Re: homebrewing ultra-lightweight feedline  
Message-ID: <004b01c2e8c1\$c131e540\$84012c42@w3kc>

I've used weedwacker line from Sears for spacers. Available in several diameters.

72 de Chas W3KC

John (n0hj) asked:

> I am planning on making some lightweight open feedline for backpacking.  
I'll probably use some lengths of teflon wire.

>

> Any brainstorming or suggestions for how to make the feedline separators?  
I'd like to get some spacing similar to 450 ladder line or larger.

-----  
Date: Wed, 12 Mar 2003 10:09:35 -0800  
From: "Ian Wilson" <ianmwilson@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [147473] Re: Understanding IFT specs  
Message-ID: <004801c2e8c2\$9323eda0\$0b02a8c0@WorkGroup>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Just realized I could measure the primary inductance of the 42IF123 (at 1.8MHz, so well away from the resonant freq).

Came in at about 4.5uH, so my previous conclusions seem to be consistent, at least :)

New question: what is the position of the tap point in the primary? It measures 2uH from one end, 0.75uH from the other, which is about 1.6:1 turns ratio. Is this a standard sort of tap point? I assume its purpose is to match better to the output impedance of typical IF gain stages.

73 de ian, k3imw/6

-----  
Date: Wed, 12 Mar 2003 13:15:31 -0500  
From: Mike Czuhajewski <wa8mcq@comcast.net>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Cc: Mike Czuhajewski <wa8mcq@comcast.net>  
Subject: [147474] Thanks for the cards/Comment on EMRFD software  
Message-ID: <008c01c2e8c3\$5e1e3560\$6401a8c0@gambrl01.md.comcast.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=iso-8859-1  
Content-transfer-encoding: 7BIT

This is a bit late, but thanks to everyone who sent the get-well QSLs. And

thanks to Doug Hendricks, KI6DS, for putting the word out. Everybody, listen to your spouse and doctor, eat right and lose those extra pounds--trust me, you don't want to have to go through a bypass operation :-) Actually, the operation and even the week in the hospital weren't that bad. The bad part comes at home about a week later when the narcotic painkillers run out and you have to rely on Tylenol alone :-)

OB QRP: The W7ZOI book Introduction to RF Design came with a floppy containing a number of DOS based programs that are useful for homebrewing, and my favorite is GPLA, the General Purpose Ladder Analysis program. I still use it every now and then to analyze different low pass filter designs. His new book comes with a CD ROM which has updated versions of some of the programs, including GPLA, and this one is Windows based and easier to use.

The best part is that he added a program called Ladder Builder, or LadBuild.exe, which allows you to set up the networks graphically on the screen and save to disk, to be opened by GPLA. With the old DOS program you had to laboriously type in a description of each network using a word processor according to a rigid format and it was pretty tedious and error prone. The newer version still uses the same text based format for the files describing the networks, but Ladder Builder lets you design the networks graphically and then it does the conversion into the text based file format. This makes everything sooooo much easier to use.

I did notice one thing that was missing in the new version. In addition to inductors, capacitors, resistors, crystals, etc, the DOS version also had a pair of components called parallel tuned circuit (PTC) and series tuned circuit (STC) These are missing from the Windows version, which means that you can't analyze elliptic filters. I asked Wes about it and he indicated that it was simply a "ran out of time" issue.

He was under some time pressure to get the software suite finished, and he wanted to give priority to the portions that deal with analyzing and modifying crystal filter designs. He said that he'll get these two components added back in eventually, and make the updated software available through either the ARRL web site or his own.

73 and queue our pea DE WA8MCQ

-----  
Date: Wed, 12 Mar 2003 12:16:04 -0600  
From: "Doc - W5TB" <w5tb@arrl.net>  
To: "N1LN" <n1ln@earthlink.net>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Cc: "Zed - K5ZTY" <k5zty@juno.com>, "W5TA - Dick" <w5ta@austin.rr.com>,

"W5MJ" <w5mj@houston.rr.com>, "W5HNS - Henry" <w5hns@aol.com>,  
Subject: [147475] Re: Pesky Texan Armadillo Chase - Last Update  
Message-ID: <01f601c2e8c3\$7314b980\$0400a8c0@attbi.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable

I certainly hope to be there tonight as one of your Armadillos but I =  
must warn you we are now in the middle of a plumbing emergency which has =  
a guy tearing out 50 feet of wall in our living room and bath -- the =  
place is a wreck and we may or may not have water & gas tonight. If I =  
wind up taking XYL to motel she ain't gonna be in the mood for me to =  
suggest I bring the K2 ;-)

Just a heads up -- hope to CU tonight but if not you'll know what =  
happened!

Bruce -- I know it's late but if you have another standby in the wings =  
please contact me as it would sure help out!

72, 73, oo T.E. 'Doc' Drake, W5TB  
Arlington, Texas  
FISTS # 5365 QRPARCI # 3532 ARRL Life Member K1 #181 K2#1617=20  
----- Original Message -----=20  
From: "N1LN" <n1ln@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Cc: "Zed - K5ZTY" <k5zty@juno.com>; "W5TA - Dick" <w5ta@austin.rr.com>; =  
"W5MJ" <w5mj@houston.rr.com>; "W5HNS - Henry" <w5hns@aol.com>; "Tom - =  
N5TW" <n5tw@igg-tx.net>; "Terry - KQ5U" <kq5u@arrl.net>; "Paul - W5PF" =  
<w5pf@ev1.net>; "N5ZE - Lew" <lew@paceley.com>; "N5ET - Bob" =  
<n5et@arrl.net>; "Mark - K5GQ" <k5gq@juno.com>; "K5NZ" <k5nz@aol.com>; =  
"George - W5YR" <w5yr@att.net>; "Doc - W5TB" <w5tb@arrl.net>; "Dan - =  
KK5LD" <d.clark@asepusa.com>; "Chuck - W5USJ" <w5usj@9plus.net>; "Cal - =  
WF5W" <CWhite314@direcway.com>; "Bill-W5SB" <w5sb@arrl.net>; "Bill - =  
K5LN" <K5ln@aol.com>; "Danny - N5BE" <drichards@houston.rr.com>  
Sent: Monday, March 10, 2003 8:49 PM  
Subject: Pesky Texan Armadillo Chase - Last Update

> Just two more nights before the Chase. Get your rigs warmed up - the  
> Armadillos have been  
> planning their strategy -  
>=20  
> Should they stay on one frequency and be easy to be found or QSY every =  
"X"  
> Qs.... only  
> time will tell.



>=20  
> Don't forget the rule change. The first place Chaser will be decided =  
based  
> on the shortest  
> elapsed time to score a sweep. If two Chasers sweep in the same =  
elapsed  
> time, the tie  
> will be decided by the earliest finish.  
>=20  
> Info can be found at: <http://www.w5nc.org/ptac/default.htm>  
>=20  
> Hope to work you ! ! !  
>=20  
> 72,  
>=20  
> Bruce - N1LN (alias K5PTC - BOB)  
>

-----  
Date: Wed, 12 Mar 2003 12:08:16 -0600  
From: "Rob Matherly" <w0jrm@arrl.net>  
To: <jae@evans@mail.codenet.net>,  
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [147476] Re: homebrewing ultra-lightweight feedline  
Message-ID: <011901c2e8c2\$5ee72020\$a211a541@jimrob>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

" Any brainstorming or suggestions for how to make the feedline separators?  
I'd like to get some spacing similar to 450 ladder line or larger."

You could buy a bag of plastic staples, take out the nails, and then run  
22ga hookup wire through the holes. I've been meaning to try that, but  
never have gotten around to it :) I think the impedance is somewhere in  
the neighborhood of 450 ohms, if 3/4" staples are used.

--  
72/73/oo  
Rob, w0jrm (ex kc0bom) - w0jrm@arrl.net  
ARRL, FPQRP -330, SOC #497, QRPp-I #19  
IAQRP #143, ARS #1143, WATPK #1  
<http://members.iowasocean.com/jimrob/>  
"Eat salad, die anyway"

-----  
Date: Wed, 12 Mar 2003 13:15:39 -0500  
From: "Mike Yetsko" <myetsko@insydesw.com>  
To: <jaevans@mail.codenet.net>,  
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [147477] Re: homebrewing ultra-lightweight feedline  
Message-ID: <007f01c2e8c3\$86c7c120\$0200a8c0@charter.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

> I am planning on making some lightweight open feedline for  
backpacking. I'll probably use some lengths of teflon wire.  
>  
> Any brainstorming or suggestions for how to make the feedline  
separators? I'd like to get some spacing similar to 450 ladder line or  
larger.  
>  
> tnx es 72 - john - n0hj

Why try to re-invent things? I just use the real cheap 300 twinlead. The  
stuff that any pull breaks it. It's fairly low weight, available lots of  
places,  
and works really well just feeding direct to my K2.

If I just HAD to make something, I might try laying out some 'packing  
tape' and spacing two 30-ga (like wirewrap) wires in it and folding  
over on itself. But I think that would be more weight than cheap tv  
twinlead.

Mike

-----  
Date: Wed, 12 Mar 2003 13:17:31 -0500  
From: "Mike Yetsko" <myetsko@insydesw.com>  
To: <kd7s@psnw.com>,  
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [147478] Re: homebrewing ultra-lightweight feedline  
Message-ID: <008801c2e8c3\$abe6eda0\$0200a8c0@charter.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

From: "Bill Jones" <kd7s@psnw.com>

> I have used 300 ohm twinlead and lightened it up by using a paper punch  
to  
> punch out a gazillion holes in the center insulation.  
> =====  
> Bill Jones - <><

Oh yeah!! In fact, I HAVE some different size punches. I have a leather  
punch with a 'wheel' that would probably work well for that. Then I could  
vary the hole size to what I feel would be the best compromise.

Mike

-----  
Date: Wed, 12 Mar 2003 11:20:51 -0700 (MST)  
From: "James P. Rybak" <jrybak@mesastate.edu>  
To: qrp-1@Lehigh.EDU  
Subject: [147479] Getting Started with SMD Soldering  
Message-ID: <Pine.LNX.4.21.0303121118510.7171-100000@mesastate.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I'm going to take the plunge and learn how to solder SMD's. What's the  
recommended basic equipment to get, including soldering iron?

Thanks.

Jim W0KSD

-----  
Date: Wed, 12 Mar 2003 12:35:12 -0600  
From: "Mark Andrews" <KE4IOF@KE4IOF.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [147480] Re: homebrewing ultra-lightweight feedline  
Message-ID: <016801c2e8c6\$1e8a8b80\$146f640a@MarkAndrews>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="Windows-1252"

Content-Transfer-Encoding: 7bit

Chas,

I can't picture in my head how this would work. Can you elaborate?

Thanks,

Mark

-----  
Mark A. Andrews

"You can't reason a person out of a position that the  
person wasn't reasoned into in the first place"

----- Original Message -----

From: "Charles W3KC" <w3kc@starpower.net>

> I've used weedwacker line from Sears for spacers. Available in several  
> diameters.

-----  
Date: Wed, 12 Mar 2003 12:36:7 -0600  
From: "Doc K0EVZ" <dock0evz@earthlink.net>  
To: "Ten-Tec Relector" <tentec@contesting.com>,  
"qrp-l reflector" <qrp-l@lehigh.edu>  
Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>  
Subject: [147481] PM3A has been spoken for  
Message-ID: <41200333121836730@earthlink.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII

Gang:

Wow, the response was terrific. Thanks to the overwhelming number of you  
who wrote back [g]. The rig has been spoken for, and will be making its  
way to a happy new home soon.

73,

--Doc/K0EVZ

-----  
Date: Wed, 12 Mar 2003 13:43:08 -0500  
From: "Mike Yetzko" <myetzko@insydesw.com>  
To: <jrybak@mesastate.edu>,  
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [147482] Re: Getting Started with SMD Soldering  
Message-ID: <00d601c2e8c7\$438dd620\$0200a8c0@charter.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

> I'm going to take the plunge and learn how to solder SMD's. What's the  
> recommended basic equipment to get, including soldering iron?  
>  
> Thanks.  
>  
> Jim WOKSD

First off, get a GOOD soldering iron with controlled tip. I use a Weller  
WTCPT iron. I've been told the WES50 is good too. And there are  
others as well.

But... make SURE you can get FINE iron plated tips that tin well and  
KEEP the tin. I've seen good irons with crappy tips.

I managed to get some aftermarket tips for mine. They are 1/64" chisel  
tips. Incredibly fine.

I'd also have on hand liquid flux and 'flux off' or some other cleaner  
with  
a brush. You can later 'fine tune' your setup if you want what's called  
'pump bottles' or whatever.

And get FINE solder. I use .015" stuff. Some people have pointed out  
that the 1% silver solder 'wets' a bit better on some device leads.

To take parts off, consider an 'air gun'. Like a hair dryer, but it blows  
slow and hot. Someone posted here a while back how to make one  
for about \$20 by taking the Radio Shack 'desoldering' iron and blowing  
air through it from a fish tank air pump. You just have to fill the  
'head'  
with steel wool or something to make sure to transfer enough heat to  
the air. (I've bought the iron, but haven't picked up my air pump yet.  
Gotta get to the pet store.)

Also, get a good workbench light with a lense to let you see things. You can spend hundreds of dollars here, but you can also find cheapie units that work surprisingly well, although not as good as the expensive ones, for under \$50.

Finally, get hand tools. GOOD tweezers, dental picks, and even hemostats. I'd LOVE to have a 'suction' holder for parts, but I just can't spend the money for one. Tweezers and the dental pick will have to do for now. (Putting liquid flux down helps hold the part, then position with the dental pick as you start soldering.)

Mike

-----  
Date: Wed, 12 Mar 2003 12:46:49 -0600  
From: "Doc K0EVZ" <dock0evz@earthlink.net>  
To: "Doc - W5TB" <w5tb@arrl.net>, "qrp-l reflector" <qrp-l@lehigh.edu>  
Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>  
Subject: [147483] Re: Pesky Texan Armadillo Chase - Last Update  
Message-ID: <4120033312184649313@earthlink.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII

Doc:

Sure sorry for you troubles, and hope you get them solved so you can be on the air tonite. Question--Will there be a substitute in the event you are not on there? And--How will the hunters know for sure?

73,  
--Doc/K0EVZ

> [Original Message]  
> From: Doc - W5TB <w5tb@arrl.net>  
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
> Date: 3/12/2003 12:16:04 PM  
> Subject: Re: Pesky Texan Armadillo Chase - Last Update  
>  
> I certainly hope to be there tonight as one of your Armadillos but I must warn you we are now in the middle of a plumbing emergency which has a guy tearing out 50 feet of wall in our living room and bath -- the place is a wreck and we may or may not have water & gas tonight. If I wind up taking XYL to motel she ain't gonna be in the mood for me to suggest I bring the K2 ;-)

>  
> Just a heads up -- hope to CU tonight but if not you'll know what happened!  
>  
> Bruce -- I know it's late but if you have another standby in the wings please contact me as it would sure help out!  
>  
> 72, 73, oo T.E. 'Doc' Drake, W5TB  
> Arlington, Texas  
> FISTS # 5365 QRP/ARCI # 3532 ARRL Life Member K1 #181 K2#1617  
> ----- Original Message -----  
> From: "N1LN" <n1ln@earthlink.net>  
> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
> Cc: "Zed - K5ZTY" <k5zty@juno.com>; "W5TA - Dick" <w5ta@austin.rr.com>; "W5MJ" <w5mj@houston.rr.com>; "W5HNS - Henry" <w5hns@aol.com>; "Tom - N5TW" <n5tw@igg-tx.net>; "Terry - KQ5U" <kq5u@arrl.net>; "Paul - W5PF" <w5pf@ev1.net>; "N5ZE - Lew" <lew@paceley.com>; "N5ET - Bob" <n5et@arrl.net>; "Mark - K5GQ" <k5gq@juno.com>; "K5NZ" <k5nz@aol.com>; "George - W5YR" <w5yr@att.net>; "Doc - W5TB" <w5tb@arrl.net>; "Dan - KK5LD" <d.clark@asepusa.com>; "Chuck - W5USJ" <w5usj@9plus.net>; "Cal - WF5W" <CWhite314@direcway.com>; "Bill-W5SB" <w5sb@arrl.net>; "Bill - K5LN" <K5ln@aol.com>; "Danny - N5BE" <drichards@houston.rr.com>  
> Sent: Monday, March 10, 2003 8:49 PM  
> Subject: Pesky Texan Armadillo Chase - Last Update  
>  
>  
> > Just two more nights before the Chase. Get your rigs warmed up - the  
> > Armadillos have been  
> > planning their strategy -  
> >  
> > Should they stay on one frequency and be easy to be found or QSY every "X"  
> > Qs.... only  
> > time will tell.  
> >  
> > Don't forget the rule change. The first place Chaser will be decided based  
> > on the shortest  
> > elapsed time to score a sweep. If two Chasers sweep in the same elapsed  
> > time, the tie  
> > will be decided by the earliest finish.  
> >  
> > Info can be found at: <http://www.w5nc.org/ptac/default.htm>  
> >  
> > Hope to work you ! ! !  
> >  
> > 72,

> >  
> > Bruce - N1LN (alias K5PTC - BOB)  
> >

-----  
Date: Wed, 12 Mar 2003 12:52:01 -0600  
From: "Mark Andrews" <KE4IOF@KE4IOF.com>  
To: <qrp-1@Lehigh.EDU>  
Subject: [147484] Re: homebrewing ultra-lightweight feedline  
Message-ID: <018301c2e8c8\$77e7ac10\$146f640a@MarkAndrews>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Good idea. They would be less bulky too.

Mark, KE4IOF

-----  
Mark A. Andrews

"You can't reason a person out of a position that the  
person wasn't reasoned into in the first place"

----- Original Message -----  
From: W2AGN

I would think soda straws would be too "soft," but I bet those plastic  
coffee stirrers would be just right.

John W2AGN

-----  
Date: Wed, 12 Mar 2003 13:55:52 -0500  
From: "n1ln@earthlink.net" <n1ln@earthlink.net>  
To: w5tb@arrl.net, n1ln@earthlink.net, qrp-1@lehigh.edu,  
                k5zty@juno.com, w5ta@austin.rr.com, w5mj@houston.rr.com,



Subject: [147485] Re: Pesky Texan Armadillo Chase - Last Update  
Message-ID: <410-220033312185552641@M2W038.mail2web.com>  
MIME-Version: 1.0  
Content-type: text/plain; charset=iso-8859-1  
Content-Transfer-Encoding: quoted-printable

Hi Doc,

I certainly understand - emergencies do happen=2E I had one standby  
Armadillo and that was Terry - KQ5U and he jumped in when Eric found out h=  
e=20  
had to go out of town=2E Let me look around and will try to send anothe=  
r  
update=2E

Bruce

Original Message:

-----

From: Doc - W5TB w5tb@arrl=2Enet  
Date: Wed, 12 Mar 2003 12:16:04 -0600  
To: n1ln@earthlink=2Enet, qrp-1@Lehigh=2EEDU, k5zty@juno=2Ecom,  
w5ta@austin=2Err=2Ecom, w5mj@houston=2Err=2Ecom, w5hns@aol=2Ecom, n5tw@igg=  
-tx=2Enet,  
kq5u@arrl=2Enet, w5pf@ev1=2Enet, lew@paceley=2Ecom, n5et@arrl=2Enet, k5gq@=  
juno=2Ecom,  
k5nz@aol=2Ecom, w5yr@att=2Enet, d=2Eclark@asepusa=2Ecom, w5usj@9plus=2Enet=  
,  
CWhite314@direcway=2Ecom, w5sb@arrl=2Enet, K5ln@aol=2Ecom,  
drichards@houston=2Err=2Ecom  
Subject: Re: Pesky Texan Armadillo Chase - Last Update

I certainly hope to be there tonight as one of your Armadillos but I must  
warn you we are now in the middle of a plumbing emergency which has a guy  
tearing out 50 feet of wall in our living room and bath -- the place is a  
wreck and we may or may not have water & gas tonight=2E If I wind up takin=  
g  
XYL to motel she ain't gonna be in the mood for me to suggest I bring the  
K2 ;-)

Just a heads up -- hope to CU tonight but if not you'll know what happened=  
!

Bruce -- I know it's late but if you have another standby in the wings  
please contact me as it would sure help out!

72, 73, oo T=2EE=2E 'Doc' Drake, W5TB  
Arlington, Texas  
FISTS # 5365 QRP/ARCI # 3532 ARRL Life Member K1 #181 K2#1617=20  
----- Original Message -----=20  
From: "N1LN" <n1ln@earthlink=2Enet>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh=2EEDU>  
Cc: "Zed - K5ZTY" <k5zty@juno=2Ecom>; "W5TA - Dick" <w5ta@austin=2Err=2Eco=  
m>;  
"W5MJ" <w5mj@houston=2Err=2Ecom>; "W5HNS - Henry" <w5hns@aol=2Ecom>; "Tom =  
- N5TW"  
<n5tw@igg-tx=2Enet>; "Terry - KQ5U" <kq5u@arrl=2Enet>; "Paul - W5PF"  
<w5pf@ev1=2Enet>; "N5ZE - Lew" <lew@paceley=2Ecom>; "N5ET - Bob"  
<n5et@arrl=2Enet>; "Mark - K5GQ" <k5gq@juno=2Ecom>; "K5NZ" <k5nz@aol=2Ecom=  
>;  
"George - W5YR" <w5yr@att=2Enet>; "Doc - W5TB" <w5tb@arrl=2Enet>; "Dan - K=  
K5LD"  
<d=2Eclark@asepusa=2Ecom>; "Chuck - W5USJ" <w5usj@9plus=2Enet>; "Cal - WF5=  
W"  
<CWhite314@direcway=2Ecom>; "Bill-W5SB" <w5sb@arrl=2Enet>; "Bill - K5LN"  
<K5ln@aol=2Ecom>; "Danny - N5BE" <drrichards@houston=2Err=2Ecom>  
Sent: Monday, March 10, 2003 8:49 PM  
Subject: Pesky Texan Armadillo Chase - Last Update

> Just two more nights before the Chase=2E Get your rigs warmed up - the  
> Armadillos have been  
> planning their strategy -  
>=20  
> Should they stay on one frequency and be easy to be found or QSY every "=  
X"  
> Qs=2E=2E=2E only  
> time will tell=2E  
>=20  
> Don't forget the rule change=2E The first place Chaser will be decided  
based  
> on the shortest  
> elapsed time to score a sweep=2E If two Chasers sweep in the same elap=  
sed  
> time, the tie  
> will be decided by the earliest finish=2E  
>=20  
> Info can be found at: <http://www=2Ew5nc=2Eorg/ptac/default=2Ehtm>  
>=20  
> Hope to work you ! ! !  
>=20  
> 72,  
>=20  
> Bruce - N1LN (alias K5PTC - BOB)

>=20

-----  
mail2web - Check your email from the web at  
<http://mail2web=2Ecom/> =2E

-----  
Date: Wed, 12 Mar 2003 14:03:04 -0500 (Eastern Standard Time)  
From: W2AGN <w2agn@w2agn.net>  
To: myetsko@insydesw.com, qrp-1@Lehigh.EDU  
Subject: [147486] Re: homebrewing ultra-lightweight feedline  
Message-ID: <3E6F8468.000001.61507@w2agn>  
MIME-version: 1.0  
Content-type: Text/Plain  
Content-transfer-encoding: 7BIT

Only thing, after doing about 100' of feedline, you have a forearm like Popeye."

+-----+ John L. Sielke  
|W||2||A||G||N| <http://www.w2agn.net> [UPDATED]  
+-----+ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

-----Original Message-----

From: myetsko@insydesw.com  
Date: Wednesday, March 12, 2003 01:58:49 PM  
To: Low Power Amateur Radio Discussion  
Subject: Re: homebrewing ultra-lightweight feedline

From: "Bill Jones" <kd7s@psnw.com>

> I have used 300 ohm twinlead and lightened it up by using a paper punch  
to  
> punch out a gazillion holes in the center insulation.  
> =====  
> Bill Jones - <><

Oh yeah!! In fact, I HAVE some different size punches. I have a leather  
punch with a 'wheel' that would probably work well for that. Then I could  
vary the hole size to what I feel would be the best compromise.

Mike

.

-----  
Date: Wed, 12 Mar 2003 14:10:06 -0500  
From: "Mike Yetsko" <myetsko@insydesw.com>  
To: "W2AGN" <w2agn@w2agn.net>, <qrp-l@lehigh.edu>  
Subject: [147487] Re: homebrewing ultra-lightweight feedline  
Message-ID: <00fd01c2e8cb\$004ac360\$0200a8c0@charter.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

> Only thing, after doing about 100' of feedline, you have a forearm like  
> Popeye."  
>  
> +---+---+---+---+ John L. Sielke  
> |W||2||A||G||N| <http://www.w2agn.net> [UPDATED]  
> +---+---+---+---+ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

That's what kids are for...

-----  
Date: Wed, 12 Mar 2003 14:25:22 -0500  
From: "Harold Smith" <harold.smith1@worldnet.att.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [147488] Parts  
Message-ID: <002001c2e8cd\$20dba340\$dd09550c@tinker>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

The Thomson Amateur Radio Club (TARC) has been running its Share the Wealth program for a couple of years now. The idea is that we make surplus electronic parts available almost free to experimenters and homebrewers.

Anyway, we've just added a whole lot more parts to the list, mostly ICs and crystals. Details are at our website, <http://www.w9rca.com/homebrew.html>.

de KE6TI, Harold

-----  
Date: Wed, 12 Mar 2003 14:44:07 -0500  
From: Steve.Lawrence@ITWFEG.COM  
To: jrybak@mesastate.edu  
Cc: qrp-1@Lehigh.EDU  
Subject: [147489] Re: Getting Started with SMD Soldering  
Message-ID: <0FBF5AFCB1.D4B51256-0N85256CE7.006A930D-85256CE7.006C6903@itwfeg.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Jim,  
For the kind of "kit" projects discussed in this forum (KD1JV/NorCal's "Nor'easter", or the SMK-1, and similar) I've done pretty well with my Edsyn 951SX temp controlled soldering iron with a *\*fine\** tip ending in a cone with about a 1/16" radius. The only thing "special" about this setup is the *\*very fine\** tip, otherwise with a bit larger tip, I use it for all other circuit board soldering.

The technique in general:

- Tin only one pad with the smallest amount of solder. I chose a "central" pad for an IC, otherwise either end of a cap or resistor, etc.
- Place part and hold in place with something convenient. I used a wooden stick blunted to a point of about 1/16" radius.
- Touch tinned pad with iron to reflow the solder, thus "tacking" the part in place.
- Solder the other end of the component (or other leads if a multiple lead component) again using brief iron contact and the tiniest bit of solder.
- Go back to the first lead and apply just a fuzz more solder.
- Inspect my work with a magnifier. A head mounted magnifier (and a steady hand) make this work possible!

And, while I'm no expert, It's amazing how little solder is needed. The amount needed is a fraction of what you'd use for a typical thru-hole part! I'm guessing about 1mm of 0.015" dia wire solder *\*or less\** per joint. There are clever "hold down" devices described on the Web. For my purposes, the stick worked well.

73,  
Steve  
aa8af

"James P. Rybak" <jrybak@mesastate.edu>  
Sent by: owner-qrp-1@Lehigh.EDU  
03/12/2003 01:20 PM  
Please respond to jrybak

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
cc:  
Subject: Getting Started with SMD Soldering

I'm going to take the plunge and learn how to solder SMD's. What's the recommended basic equipment to get, including soldering iron?

Thanks.

Jim W0KSD

-----  
Date: Wed, 12 Mar 2003 15:36:25 -0500  
From: "Ron Pfeiffer" <n1zsw@hotmail.com>  
To: qrp-1@Lehigh.EDU  
Subject: [147490] WTB: K1MG Digital Display  
Message-ID: <F118c320m1joKIB5i5Q00035ca9@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

Looking for a Mike Gipe Digital Display kit built or unbuilt.

Ron

-----  
Add photos to your messages with MSN 8. Get 2 months FREE\*.  
<http://join.msn.com/?page=features/featuredemail>  
-----

Date: Wed, 12 Mar 2003 15:36:54 -0600 (GMT)  
From: Robert Grizzard <grizzarv@mindspring.com>  
To: jrybak@mesastate.edu, qrp-1@lehigh.edu  
Subject: [147491] Re: Getting Started with SMD Soldering  
Message-ID: <6704562.1047501415200.JavaMail.nobody@wamui06.slb.atl.earthlink.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I've done some of that, Jim (he says as he waits for a charge number to go buy some more SMT resistors). I have used a Hexacon, Hakko, and Metcal iron to solder these down and, equally as important, unsolder them.

Plan on getting a magnified desk lamp to do most of your work under. Even with young sharp eyes, the magnification is a huge help when inspection time comes. It'll become a bigger help when you approach 40.

Tweezers are invaluable. Since I spend a good part of my day with my tweezers in my hand, I use a Regine size 00. Other guys I work with use a size 5 tweezers, but I'm heavy handed. That's also the reason I don't use the 00c tweezers I also have. Pick something that feels right in your hand and that doesn't obscure too much of the workpiece.

If you're accustomed to point-to-point wiring, you will be astounded how short your leakage paths are when you start soldering SMT devices. You will need to remove the flux to keep those leakage paths under control. At work we use absolute Isopropyl alcohol; since I haven't found that in personal quantities yet, I would suggest Everclear as a cleaning solvent.

Some fluxes are water soluble, and that suggests an appropriate cleaning solvent as well.

You will want some acid brushes, Q-tips, non-linting tissues, and possibly pipe cleaners for cleanup. Careful how hard you scrub; those little devices will scrub right off the board if you get too vigorous.

I have used both 0.020" and 0.010" solder for SMD soldering. Stick with a good brand of solder. You may want to use silver-bearing tin-lead solder if you're going to be soldering silver-plated SMT devices (which will be a huge percentage of them), as it will minimize the amount of leaching that occurs. ISTR it also minimizes the amount of leaching that occurs when soldering gold plate, minimizing the formation of the brittle tin/gold intermetallic, but ICBW.

Remain consistent in your fluxes; IOW, if your solder is rosin-cored use a liquid rosin flux and rosin-fluxed solder wick or use no-clean solder, flux, and solder wick.

The required techniques are the hardest thing to acquire. If you have a local

electronics manufacturer, ask if they would entertain the notion of letting you take their SMT soldering class for assembly line operators. If not, try the local juco or university for a "continuing education" or credit course. An Elmer wouldn't be a bad idea either. Face up to the fact that you will burn some board before you get good at it, though, and plan to do that on something that won't make you wail in frustration and start slinging stuff through the walls when it happens.

Gotta' tell ya, I much prefer SMT soldering to through-hole these days. Once you get a handle on it, it's so much easier it isn't funny.

HTH

de kg7yy

-----Original Message-----

From: "James P. Rybak" <jrybak@mesastate.edu>  
Sent: 03/12/03 12:20 PM  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: Getting Started with SMD Soldering

>

> I'm going to take the plunge and learn how to solder SMD's. What's the recommended basic equipment to get, including soldering iron?

Thanks.

Jim W0KSD

-----  
Date: Wed, 12 Mar 2003 15:38:51 -0500  
From: Alex <kr1st@amsat.org>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [147492] Free course material for ARRL Cont. Ed. Emergency Comm.  
Message-ID: <3E6F9ADB.807EE34C@amsat.org>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7bit

While searching for info on noise canceling microphones I stumbled upon this page where you can download the course material for the ARRL's Continuing Education course in Emergency Communication for free:

<http://www.w0ipl.com/ECom/>



Level I and Level II are available on this site in HTML and PDF format.  
As Pat states on his page, he'd appreciate it if you send him a few  
bucks to keep the site up. I think the ARRL charges 10 bucks for each of  
them.

73,  
--Alex KR1ST

-----  
Date: Wed, 12 Mar 2003 16:11:33 -0600  
From: "Byron Tatum" <bjtatum@ev1.net>  
To: <qrp-1@Lehigh.EDU>  
Subject: [147493] Antenna Question  
Message-ID: <001b01c2e8e4\$588390c0\$73dddacf@tatum001>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hello-

It appears that I may be looking at using an antenna tuner with open  
wire feeder and dipole, as I have placed putting up a tower on hold.

I have plenty of room where I am and can put up a very long dipole { say  
250' total if needed}.

I have never used this type of antenna system and want to work all HF  
bands.

I recall an article in QST about a year ago regarding an antenna tuner  
that was balanced, if I remember correctly it used dual roller inductors and  
was supposed to be much better for open wire feedline. Can anyone comment on  
this to me? Thank you, Byron WA5THJ.

-----  
Date: Wed, 12 Mar 2003 17:18:24 -0500  
From: "n1ln@earthlink.net" <n1ln@earthlink.net>  
To: w5tb@arrl.net, n1ln@earthlink.net, qrp-1@lehigh.edu,  
        k5zty@juno.com, w5ta@austin.rr.com, w5mj@houston.rr.com,  
Cc: w5mf@arrl.net  
Subject: [147494] Re: Pesky Texan Armadillo Chase - Last Update  
Message-ID: <123820-22003331222182420@M2W095.mail2web.com>  
MIME-Version: 1.0  
Content-type: text/plain; charset=iso-8859-1  
Content-Transfer-Encoding: quoted-printable

Doc,

I have found one of two replacements - just not sure which one yet=2E

Chuck - N05W

Marty - W5MF

So - please take your time with the water hazard - and don't take the K2 t=  
o  
the motel=2E

Original Message:

-----

From: Doc - W5TB w5tb@arrl=2Eenet

Date: Wed, 12 Mar 2003 12:16:04 -0600

To: n1ln@earthlink=2Eenet, qrp-1@Lehigh=2EEDU, k5zty@juno=2Ecom,  
w5ta@austin=2Err=2Ecom, w5mj@houston=2Err=2Ecom, w5hns@aol=2Ecom, n5tw@igg=  
-tx=2Eenet,

kq5u@arrl=2Eenet, w5pf@ev1=2Eenet, lew@paceley=2Ecom, n5et@arrl=2Eenet, k5gq@=  
juno=2Ecom,

k5nz@aol=2Ecom, w5yr@att=2Eenet, d=2Eclark@asepusa=2Ecom, w5usj@9plus=2Eenet=  
,

CWhite314@direcway=2Ecom, w5sb@arrl=2Eenet, K5ln@aol=2Ecom,

drichards@houston=2Err=2Ecom

Subject: Re: Pesky Texan Armadillo Chase - Last Update

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warn you we are now in the middle of a plumbing emergency which has a guy  
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g

XYL to motel she ain't gonna be in the mood for me to suggest I bring the  
K2 ;-)

Just a heads up -- hope to CU tonight but if not you'll know what happened=  
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Bruce -- I know it's late but if you have another standby in the wings  
please contact me as it would sure help out!

72, 73, oo T=2EE=2E 'Doc' Drake, W5TB

Arlington, Texas

FISTS # 5365 QRP/ARCI # 3532 ARRL Life Member K1 #181 K2#1617=20

----- Original Message -----=20

From: "N1LN" <n1ln@earthlink=2Eenet>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh=2EEDU>

Cc: "Zed - K5ZTY" <k5zty@juno=2Ecom>; "W5TA - Dick" <w5ta@austin=2Err=2Eco=

m>;  
"W5MJ" <w5mj@houston=2Err=2Ecom>; "W5HNS - Henry" <w5hns@aol=2Ecom>; "Tom =  
- N5TW"  
<n5tw@igg-tx=2Enet>; "Terry - KQ5U" <kq5u@arrl=2Enet>; "Paul - W5PF"  
<w5pf@ev1=2Enet>; "N5ZE - Lew" <lew@paceley=2Ecom>; "N5ET - Bob"  
<n5et@arrl=2Enet>; "Mark - K5GQ" <k5gq@juno=2Ecom>; "K5NZ" <k5nz@aol=2Ecom=  
>;  
"George - W5YR" <w5yr@att=2Enet>; "Doc - W5TB" <w5tb@arrl=2Enet>; "Dan - K=  
K5LD"  
<d=2Eclark@asepusa=2Ecom>; "Chuck - W5USJ" <w5usj@9plus=2Enet>; "Cal - WF5=  
W"  
<CWhite314@direcway=2Ecom>; "Bill-W5SB" <w5sb@arrl=2Enet>; "Bill - K5LN"  
<K5ln@aol=2Ecom>; "Danny - N5BE" <drichards@houston=2Err=2Ecom>  
Sent: Monday, March 10, 2003 8:49 PM  
Subject: Pesky Texan Armadillo Chase - Last Update

> Just two more nights before the Chase=2E Get your rigs warmed up - the  
> Armadillos have been  
> planning their strategy -  
>=20  
> Should they stay on one frequency and be easy to be found or QSY every "=  
X"  
> Qs=2E=2E=2E only  
> time will tell=2E  
>=20  
> Don't forget the rule change=2E The first place Chaser will be decided  
based  
> on the shortest  
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sed  
> time, the tie  
> will be decided by the earliest finish=2E  
>=20  
> Info can be found at: <http://www=2Ew5nc=2Eorg/ptac/default=2Ehtm>  
>=20  
> Hope to work you ! ! !  
>=20  
> 72,  
>=20  
> Bruce - N1LN (alias K5PTC - BOB)  
>=20

-----  
mail2web - Check your email from the web at  
<http://mail2web=2Ecom/> =2E

-----  
Date: Wed, 12 Mar 2003 22:19:53 +0000  
From: Larry Cahoon <lejek@erols.com>  
To: qrp-1@lehigh.edu  
Subject: [147495] WI QSO Party  
Message-ID: <5.1.0.14.0.20030312221623.027293f8@pop.erols.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

I played around for the first four hours of the WI QSO party this past weekend. The other family obligations took a higher priority. I ended up with 30 QSOs into 22 counties all at 500 mWatts. Even better I managed to get one of the last two counties I needed to finish up the state QRPP. I wrote up a short piece, including some propagation maps from the ACE-HF propagation software at my web site.

The set up here was the K1 with the 10 meter extended double zepp pointed conveniently towards WI. I stuck strictly with 20 meters for the contest.

73 de Larry.....WD3P  
<http://www.wd3p.net/>

-----  
Date: Wed, 12 Mar 2003 17:37:19 -0500  
From: "n1ln@earthlink.net" <n1ln@earthlink.net>  
To: w5tb@arrl.net, n1ln@earthlink.net, qrp-1@lehigh.edu,  
k5zty@juno.com, w5ta@austin.rr.com, w5mj@houston.rr.com,  
Cc: no5w@txucom.net  
Subject: [147496] Re: Pesky Texan Armadillo Chase - Last Update  
Message-ID: <232810-220033312223719460@M2W073.mail2web.com>  
MIME-Version: 1.0  
Content-type: text/plain; charset=iso-8859-1  
Content-Transfer-Encoding: quoted-printable

Doc and all,

We are set=2E Thanks to Bill - W5SB that had both Chuck's cell and pager numbers - our #20 Armadillo will be: Chuck - N05W=2E

Lets hope for great band conditions=2E

Bruce - N1LN

Original Message:

-----  
From: Doc - W5TB w5tb@arrl=2Enet  
Date: Wed, 12 Mar 2003 12:16:04 -0600  
To: n1ln@earthlink=2Enet, qrp-1@Lehigh=2EEDU, k5zty@juno=2Ecom,  
w5ta@austin=2Err=2Ecom, w5mj@houston=2Err=2Ecom, w5hns@aol=2Ecom, n5tw@igg=  
-tx=2Enet,  
kq5u@arrl=2Enet, w5pf@ev1=2Enet, lew@paceley=2Ecom, n5et@arrl=2Enet, k5gq@=  
juno=2Ecom,  
k5nz@aol=2Ecom, w5yr@att=2Enet, d=2Eclark@asepusa=2Ecom, w5usj@9plus=2Enet=  
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Arlington, Texas  
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----- Original Message -----=20  
From: "N1LN" <n1ln@earthlink=2Enet>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh=2EEDU>  
Cc: "Zed - K5ZTY" <k5zty@juno=2Ecom>; "W5TA - Dick" <w5ta@austin=2Err=2Ecom>;  
"W5MJ" <w5mj@houston=2Err=2Ecom>; "W5HNS - Henry" <w5hns@aol=2Ecom>; "Tom =  
- N5TW"  
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>;  
"George - W5YR" <w5yr@att=2Enet>; "Doc - W5TB" <w5tb@arrl=2Enet>; "Dan - K=  
K5LD"  
<d=2Eclark@asepusa=2Ecom>; "Chuck - W5USJ" <w5usj@9plus=2Enet>; "Cal - WF5=  
W"

<CWhite314@direcway=2Ecom>; "Bill-W5SB" <w5sb@arrl=2Enet>; "Bill - K5LN"  
<K5ln@aol=2Ecom>; "Danny - N5BE" <dritchards@houston=2Err=2Ecom>  
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>=20  
> Bruce - N1LN (alias K5PTC - BOB)  
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-----  
mail2web - Check your email from the web at  
<http://mail2web=2Ecom/> =2E

-----  
Date: Wed, 12 Mar 2003 15:13:29 -0800 (PST)  
From: Tom Popovic <ki3r@yahoo.com>  
To: myetsko@insydesw.com,  
Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [147497] Re: homebrewing ultra-lightweight feedline  
Message-ID: <20030312231329.97364.qmail@web11203.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

>  
> Oh yeah!! In fact, I HAVE some different size  
> punches. I have a leather  
> punch with a 'wheel' that would probably work well  
> for that. Then I could  
> vary the hole size to what I feel would be the best  
> compromise.  
>  
> Mike  
>  
>

Hello all .... I made 20 spacers several evenings ago  
by using something we all have ..... that black  
plastic CD pouch that AOL sent. It was a very good  
deal in so much as I got 2 sent to me ...the case for  
spacers and 2 nice targets for the .308. I used a  
leather punch to put 2 holes in each side of the  
spacer. It looks the speaker wire I'm using quite  
well for the dipole feed. Hopefully I will be able to  
get out in a few weeks to the woods to see how things  
go.

73 God Bless Tom Popovic KI3R Port Vue Pa.

=====

The common good was the claim and justification of every  
tyranny ever established over men. Every major horror of  
history was committed in the name of altruistic motive...  
Actors change, but the course of the tragedy remains the  
same. Ayn Rand 1943

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Do you Yahoo!?  
Yahoo! Web Hosting - establish your business online  
<http://webhosting.yahoo.com>

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End of QRP-L Digest 2857

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